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EUROPEAN PATENT APPLICATION

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Control

- (54) A method for detecting the home area in a mobile station and a mobile station
- The invention relates to a method for detecting a home area in a mobile station, and to a mobile station realizing the invention. According to the invention the home area is detected in the mobile station by comparing (8) data received by the mobile station from the base stations of a cellular network with predetermined (1 to 6) home area data stored in the mobile station. The home area data is determined (1 to 6) based on preferably all of the following data: a) a mobile country code (MCC). b) a mobile network code (MNC), c) a location area code (LAC) and a related cell identity (CI) for all broadcasting channels (BCCH) which the base station is able to receive, d) received signal strengths (RSS) for all broadcasting channels BCCH, e) distances from all base stations (BTS) on the broadcasting channels BCCH, and f) timing advances (TA).

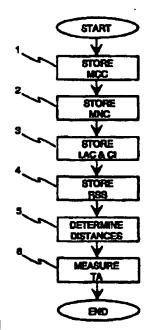


FIGURE 1

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98 11 5761

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ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

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INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER	see Form PCT/ISA/220
PAT 56558W-90	ACTION	as well as, where applicable, Item 5 below.
International application No.	International filing date (day/month/ye	ar) (Earliest) Priority Date (day/month/year)
	27/02/2004	13/11/2003
PCT/CA2004/000293	27/02/2004	13/11/2003
Applicant		
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This international Search Report has bee according to Article 18. A copy is being to	on prepared by this International Searchi cansmitted to the International Bureau.	ng Authority and is transmitted to the applicant
This international Search Report consists		s.
	a copy of each prior art document cited	
[A] THE WOOD WOOD IN PARTIES OF	,	
Basis of the report		
With regard to the language, the language in which it was filed, ur	International search was carried out on tless otherwise indicated under this item	the basis of the international application in the
The internationa this Authority (R		a translation of the international application furnished to
b. With regard to any nucle	eotide and/or amino acid sequence di	sclosed in the international application, see Box No. I.
2. Certain claims were for	und unsearchable (See Box II).	•
3. Unity of invention is la	cking (see Box III).	
4. With regard to the title,		
X the text is approved as a	submitted by the applicant.	
the text has been estable	ished by this Authority to read as follows	:
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5. With regard to the abstract,		
	submitted by the applicant.	
the text has been estable	ished, according to Rule 38.2(b), by this	Authority as it appears in Box No. IV. The applicant nal search report, submit comments to this Authority.
may, within one month i	ION TO COM OF HIGHING OF THE HIGHING	The same of taken a second south and the second sec
6. With regards to the drawings,		
_	published with the abstract is Figure N	o. <u>6</u>
X as suggested b		
as selected by	his Authority, because the applicant fall	ed to suggest a figure.
as selected by	this Authority, because this figure better	characterizes the invention.
b. none of the figures is to	be published with the abstract.	

INTERNATIONAL SEARCH REPORT

international Application No /CA2004/000293

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 H0407/38

According to International Patent Classification (IPC) or to both national classification and IPC

B. RELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7 H04Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, COMPENDEX, INSPEC, PAJ, WPI Data

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X Furt	her documents are listed in the continuation of box C. X Petent family membe	rs are listed in ennex.

Further documents are listed in the continuation of box C.	Petent tamily members are listed in ennex.
Special categories of cited documents: A document defining the general state of the art which is not considered to be of particular relevance E earlier document but published on or after the international filing date "t document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another clation or other special reason (as specified) "O" document reterring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed	T' tater document published after the International fling date or priority date and not in conflict with the application but clead to understand the principle or theory underlying the invention. 'X' document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone. 'Y' document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents a combined with one or more other such documents, such combination being obvious to a person sidiled in the art. '&' document member of the same patent family
Date of the actual completion of the international search	Date of mailing of the international search report
12 July 2004	23/07/2004
Name and mailing address of the ISA	Authorized officer
European Patent Office, P.B. 5818 Patentlash 2 NL - 2280 HV Rijswijk Tet. (+31-70) 340-2040, Tx. 31 651 epo ni, Fax: (+31-70) 340-3016	Rosenauer, H

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